K955846 Oct. 1, 1996

510(k) SUMMARY OF SAFETY AND EFFECTIVENESS

IVAC CORPORATION SUBMITTER'S NAME: 1.

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Sr. Manager of Corp. QA/RA

December 22, 1995 DATE PREPARED:

Model 2082/2087 Temp Plus III **DEVICE NAME:** Proprietary Name: 2.

Thermometers

Common Name: **Electronic Thermometer**

Classification Name: Clinical Electronic Thermometer

IVAC Models 2080/2085 Temp Plus II Thermometers 3. PREDICATE DEVICE:

Diatek SureTemp 4 Thermometer

The IVAC Models 2082/2087 Thermometers are **DEVICE DESCRIPTION:** 4.

> thermistor-based electronic thermometers that are used in clinical practice for measuring oral, rectal and axillary temperature. A thermistor located at the tip of the probe is placed in contact with tissue at the A microprocessor desired measurement site. measures resistance in the circuit and converts the resistance measurement to a temperature, which is

then displayed.

The intended use for the IVAC Models 2082/2087 5. INTENDED USE:

Thermometers is to measure oral, rectal and axillary

temperatures in clinical practice.

6. **TECHNOLOGICAL** CHARACTERISTICS:

The new IVAC Models 2082/2087 Thermometers use a new algorithm which allows the predictive mode to display a temperature in approximately ten seconds versus the current speed of thirty seconds. There are no other significant changes being made to the existing Models 2080/2085 Thermometers. developed a microprocessor and electronics package employing novel predictive technology accelerating the response time of slowly responding sensors. The hydrogen sensor system was modified to accept input from a medical type thermistor and

was tested by NASA.

(continued)

6. TECHNOLOGICAL CHARACTERISTICS:

The primary function of the modified thermometers are the same as the current IVAC Models 2080/2085 Thermometers and the Diatek SureTemp 4 Thermometer: to measure oral, rectal and axillary temperatures. The technological characteristics of the devices are the same and raise no new questions of safety and effectiveness. IVAC Corporation concludes that the new IVAC Models 2082/2087 Thermometers are substantially equivalent to the original IVAC Models 2080/2085 Thermometers and the Diatek SureTemp 4 Thermometers.